

**COUNTY OF SAN DIEGO EMERGENCY MEDICAL SERVICES
 POLICY/PROCEDURE/PROTOCOL**

**No. S-150
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**SUBJECT: TREATMENT PROTOCOL -
 NERVE AGENT EXPOSURE AND AUTOINJECTOR USE**

Date: 07/01/2019

BLS

ALS

**Upon identification of a scene
 involving suspected or known
 exposure of nerve agent:**

- Isolate Area
- Notify dispatch of possible Mass Casualty Incident with possible Nerve Agent involvement.
- DO NOT ENTER AREA

If exposed:

- Blot off agent
- Strip off all clothing, avoiding contact with outer clothing surfaces.
- Flush affected area(s) with copious amounts of water
- Cover affected area(s)

If you begin to experience any signs/symptoms of nerve agent exposure, for example (Use "SLUDGE" mnemonic): Salivation, Lacrimation, Urination, Defecation, Gastric Complications, Emesis

- Increased secretions (tears, saliva, runny nose, sweating)
- Diminished vision
- SOB
- Nausea, vomiting, diarrhea
- Muscle twitching/weakness
- NOTIFY THE INCIDENT COMMANDER (or dispatch if no IC) immediately of your exposure and declare yourself a patient

Self-Treat Immediately per the Acuity Guidelines listed under ALS

Triage, decontaminate and treat patient based on severity of symptoms SO

Mild: Miosis, rhinorrhea, increasing dyspnea, fasciculations, sweating
 o Atropine autoinjector (or 2 mg) IM
 o 2-PAM Cl autoinjector (or 600 mg) IM

Moderate: Headache, weakness, miosis, rhinorrhea, dyspnea/wheezing (if inhaled), increased secretions, generalized fasciculations, muscle weakness, GI effects
 o Atropine autoinjector (or 2 mg) IM, MR x1 in 5-10"
 o 2-PAM Cl autoinjector (or 600 mg) IM, MR x1 in 5-10"
 *Diazepam autoinjector or midazolam 5 mg IM if diazepam autoinjector not available

Severe: Unconscious, seizures, muscle weakness, fatigue, flaccid, paralysis, apnea, bradycardia, heart block or tachycardia

Initial dosing:

- o Atropine autoinjector (or 2 mg) IM x3 doses in succession
- o 2-PAM Cl autoinjector (or 600 mg) IM x3 doses in succession
- *Diazepam autoinjector, or midazolam 10 mg IM if diazepam autoinjector not available, for seizure activity
- o O₂/intubate

Ongoing treatment:

- o Atropine autoinjector (or 2 mg) IM, MR q3-5" until secretions diminish
- o 2-PAM Cl autoinjector (or 600 mg) IM, MR x1 in 3-5"
- o For continuous seizure activity, MR midazolam 10 mg IM x1 in 10"

Pediatric doses:

<u>Weight</u>	<u>Atropine</u>	<u>2-PAM Cl</u>	<u>Midazolam</u>
<20 kg	0.5 mg	100 mg	2.5 mg
20-39 kg	1 mg	300 mg	5.0 mg
≥40 kg	2 mg	600 mg	10 mg

For doses less than the amount in the autoinjector, use the medication vial and administer with a syringe.

Consider: For frail, medically compromised, hypertensive, or renal failure patients, administer half doses of atropine and 2-PAM Cl

Note: *Diazepam autoinjectors available from Chempack caches only.

Diazepam, Atropine and 2-Pam Cl autoinjectors are approved for self-treatment, treatment of public safety personnel, and the treatment of patients ONLY by prehospital personnel who have completed the County of San Diego approved training **or** on scene (Just - In -Time training by trained personnel) specific to the use of autoinjectors.